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PHYSICS LETTERS

MASTER INDEX TO VOLUMES 100–110A

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Written by scientists from France, Switzerland, the USA and the USSR, this book comprises the first systematic exposition of various physical aspects of the orientation of electron and nuclear spins in semiconductors by optical means. A comprehensive consideration of the basic principles and theory of the optical spin polarization in semiconductors is accompanied by an analysis of a wide scope of problems related to studies of semiconductors by the optical polarization and polarized luminescence methods, optical electron momentum alignment, the production and use of intensive polarized electron beams, the dynamic polarization of nuclei, optical ESR and NMR detection. Nonlinear phenomena due to the collective nature of spin interaction in semiconductors, as well as other phenomena which do not have counterparts in the optical spin polarization in gases, are considered.

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Phase Separation in Glass

edited by O.V. MAZURIN *and* E.A. PORAI-KOSHITS, *Institute of Silicate Chemistry, Academy of Sciences of the U.S.S.R., Leningrad, U.S.S.R.*

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This volume is the first book in the English language containing comprehensive information on all the main aspects of phase separation in glass. The contributing authors, specialists in theoretical physics, experimental physics and materials science, discuss the following topics at length:-

- the thermodynamics and kinetics of phase separation;
- influence of composition and temperature on immiscibility gaps and tie-line directions;
- factors affecting structure and morphology of phase-separated glasses;
- properties of phase separated glasses and their dependence on morphology of the glasses, and
- the practical implications of the discussed phenomenon.

The resulting book can be recommended to all specialists interested in glass science and technology. One of the more unique aspects of this work is that it provides scientists in Western countries with the opportunity to become familiar with many important results on this subject, which up until now could only be found in Russian literature.

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HANDBOOK ON THE PHYSICS AND CHEMISTRY OF

THE ACTINIDES

In the last 15 years actinide research has presented unique challenges both for experimentalists and theorists. Their uniqueness stems not only from their nuclear properties, which since the early 1940's has led to their important role in nuclear energy and nuclear technology, but also from their unusual chemical and physical properties which have added new excitement and discoveries to both these disciplines.

It is known that these elements also have 'unfortunate properties' such as scarcity, radioactivity, toxicity and reactivity, which cause severe complications for their preparation and handling. The unusual behavior of their 5f electrons – which causes questions such as localization versus delocalization to come to the forefront, has added a complexity not found in the other elements. The fruits of these extensive and greatly accelerated experimental and theoretical investigations include not only a deeper understanding of these unique elements but of the rest of the elements in the Periodic Table as well.

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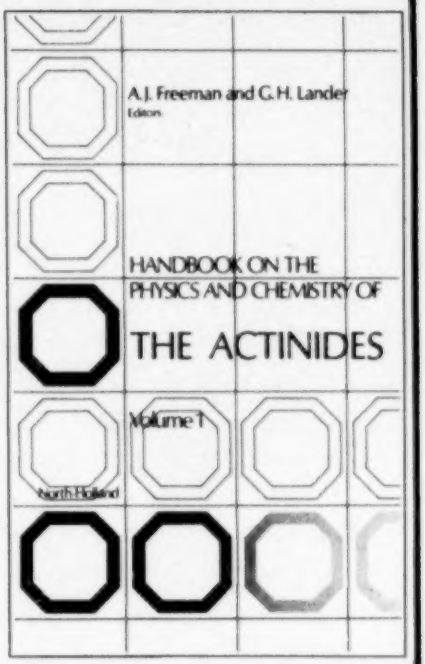

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